IN THE CLAIMS:

Claims 23-26, 29-31, and 34-33 have been canceled herein. New claims 45-64 have been added. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-44 (Canceled)

- 45. (New) A method of forming a gate stack, comprising:

 forming a gate dielectric layer on a silicon substrate;

 forming a doped polysilicon layer on the gate dielectric layer;

 forming a metallic silicide film on the doped polysilicon layer; and

 forming a silicon nitride layer on the metallic silicide film at a sufficiently low

 temperature to maintain the metallic silicide film in an amorphous state.
- 46. (New) The method of claim 45, wherein forming a metallic silicide film on the doped polysilicon layer comprises forming the metallic silicide film from a metal silicide selected from the group consisting of tungsten silicide, cobalt silicide, molybdenum silicide, and titanium silicide.
- 47. (New) The method of claim 45, wherein forming a metallic silicide film on the doped polysilicon layer comprises forming an amorphous metallic silicide film on the doped polysilicon layer.
- 48. (New) The method of claim 45, wherein forming a silicon nitride layer on the metallic silicide film at a sufficiently low temperature to maintain the metallic silicide film in an amorphous state comprises forming the silicon nitride layer at a temperature below about 600°C.

- 49. (New) The method of claim 45, wherein forming a silicon nitride layer on the metallic silicide film at a sufficiently low temperature to maintain the metallic silicide film in an amorphous state comprises forming the silicon nitride layer at a temperature ranging from approximately 400°C to below approximately 600°C.
- 50. (New) The method of claim 45, wherein forming a silicon nitride layer on the metallic silicide film at a sufficiently low temperature to maintain the metallic silicide film in an amorphous state comprises forming the silicon nitride layer by chemical vapor deposition, sputtering, or a spin-on technique.
- 51. (New) The method of claim 45, wherein forming a silicon nitride layer on the metallic silicide film at a sufficiently low temperature to maintain the metallic silicide film in an amorphous state comprises forming the silicon nitride layer by plasma-enhanced chemical vapor deposition.
- 52. (New) The method of claim 45, wherein forming a silicon nitride layer on the metallic silicide film at a sufficiently low temperature to maintain the metallic silicide film in an amorphous state comprises forming the silicon nitride layer while preventing formation of at least one silicon cluster in the metallic silicide film.
- 53. (New) The method of claim 45, further comprising: forming and patterning a photoresist layer on the silicon nitride layer; etching the silicon nitride layer, the metallic silicide film, and the doped polysilicon

layer; and removing the photoresist layer.

54. (New) The method of claim 53, wherein the gate dielectric layer is substantially devoid of pitting.

- 55. (New) A method of forming a gate stack, comprising: forming a gate dielectric layer on a silicon substrate; forming a doped polysilicon layer on the gate dielectric layer; forming an amorphous metallic silicide film on the doped polysilicon layer; forming a silicon nitride layer on the amorphous metallic silicide film; forming at least one silicon cluster within the amorphous metallic silicide film; and dispersing the at least one silicon cluster.
- 56. (New) The method of claim 55, wherein forming at least one silicon cluster within the amorphous metallic silicide film comprises crystallizing the amorphous metallic silicide film.
- 57. (New) The method of claim 55, wherein forming at least one silicon cluster within the amorphous metallic silicide film comprises exposing the amorphous metallic silicide film to at least one heat cycle.
- 58. (New) The method of claim 55, wherein forming an amorphous metallic silicide film on the doped polysilicon layer comprises forming the amorphous metallic silicide film from a metal silicide selected from the group consisting of tungsten silicide, cobalt silicide, molybdenum silicide, and titanium silicide.
- 59. (New) The method of claim 55, wherein forming at least one silicon cluster within the amorphous metallic silicide film comprises at least one of annealing the amorphous metallic silicide film and forming the silicon nitride layer at a temperature greater than approximately 600°C.
- 60. (New) The method of claim 55, wherein forming a silicon nitride layer on the amorphous metallic silicide film comprises forming the silicon nitride layer at a temperature below about 600°C.

- 61. (New) The method of claim 60, wherein forming at least one silicon cluster within the amorphous metallic silicide film comprises annealing the amorphous metallic silicide film.
- 62. (New) The method of claim 60, wherein forming a silicon nitride layer on the amorphous metallic silicide film comprises forming the silicon nitride layer by chemical vapor deposition, sputtering, or a spin-on technique.
- 63. (New) The method of claim 60, wherein forming a silicon nitride layer on the amorphous metallic silicide film comprises forming the silicon nitride layer by plasma-enhanced chemical vapor deposition.
- 64. (New) The method of claim 55, further comprising:
 forming and patterning a photoresist layer on the silicon nitride layer;
 etching the silicon nitride layer, the amorphous metallic silicide film, and the doped polysilicon layer; and
 removing the photoresist layer.